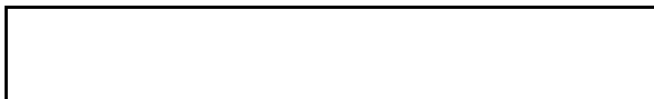


FIFTH MONTHLY PROGRESS REPORT

DESIGN AND FABRICATION OF VARIABLE
ANAMORPHIC VIEWING SYSTEM

Period April 1, 1966 to ^{May}~~March~~ 1, 1966



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Declass Review by NGA.

During this period the optical design of the complete anamorphic system was finished. This design was then given to the mechanical design group for design of a mount. Initial efforts to design the mount showed that minor modification of the optical design would simplify the mount structure.

The simplification that could be achieved justified the time necessary to modify the optical design. This modification has been completed. At the same time the surface curvatures of the various lens components were matched to existing tooling to avoid manufacturing delay. Figure 1 is an optical schematic showing the overall configuration of the final design. Computation shows that the full field of the Zoom 70 will be visible. There will be some vignetting at the extreme edge (beyond 90% full field) of the field but this portion will still be useable.

An overall concept of the mount configuration has been developed. A layout of this concept is being drawn up, but will not be completed in time to be included with this report. As soon as it is ready copies will be forwarded for review and comment. However, manufacture will proceed without awaiting comments.

Detailing of the mount will proceed immediately upon completion of the layout. As soon as a sufficient number of drawings are completed to permit accurate estimate they

will be submitted to production control for a firm estimate of completion time. It appears at present that the previous date of June 15 is too optimistic and will not be met. A revised date can be obtained only by the above procedure, and as soon as it is available it will be forwarded. With the reason for previous slippage, namely the complexity of technical problems being greater than anticipated, no longer existing, the program will proceed according to schedule.

